**TEAM: - WHITE HATS**

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**PROJECT NAME: - LIBRARY MANAGEMENT SYSTEM**

**DOCUMENTATION OF PROJECT**

**PROBLEM STATEMENT: -**The project titled Library Management System is a management software for monitoring and controlling the transaction in a library, developed using Django, Python and Sqlite for storing the data.

Manually maintaining such records requires a great amount of time and efforts. So, to solve this issue, we decided to make this Library Management System Project using -

* Django
* SQLite
* Python
* HTML

**SQLite** is a popular lightweight database, making the reading and writing process 35% faster than the file system.

**Using Django for web development** enable us to divide the code into logical groups to make it easy to make changes. It provides pre-packages API for common user tasks.

**REQUIREMENTS: -**

Software- Notepad, Command Prompt, Chrome, Python IDLE.

Hardware- Laptop

**TECHNOLOGIES USED: -** Python, django, SQL, HTML

**PROJECT DESCIPTION: -** The **Library Management System Project** is developed using **Python Django, HTML.** It is an advanced management system which provides interface. A **Library Management System in Django** runs Django Framework in back-end and HTML in front-end. The project contains all the features of a library management like login, interactive UI, issue books, manage books, Add books to the library.

* **Login Form:** In this feature the user can log into the library’s computer system.
* **Process Selection:** To select which operation to perform like update, issue, return, display.
* **Update Book:** To update the information of a new book in the library.
* **Issue**: To update the information of a book being issued to a particular student.
* **Return**: To update the record whether the book has been returned by the student or not.
* **Display**: To display the details(names, codes) of books being issued, returned or updated.

**SCOPE: -**

* **Feature:** This web application takes User Id and password of a particular library’s computer system in order to update some information regarding books and students, displaying which book has been issued to a particular student, whether he/she has returned it or not.
* **Function:** As it uses SQLite database to store and display information, reading and writing operations are very fast. It only loads the data which is needed, rather than loading the entire file’s data. SQLite is less bugs prone.

Using Django for web application divides the whole project and code into small logical groups, thus making it easy to make changes in the code.

**CHALLENGES FACED: -** The major challenge faced in the initial stage was in interconnecting the web pages using html.

**CONCLUSION: -** This project contains admin side, the admin side manages all the management like adding and**Manage Books, Manage Students, Manage Users, Borrowing and Returning of Books, Adding and Retrieving the Data in SQLite Database.** Thus, this is the way of management of the**library system.**